

REPLACEMENT SHEET

1/1	31/11
ggc ggc gct ccg ctc tgc gct ggg gtt cgt	cac tgg gcg ccg gat ttg gcc gcc gcg ggg
G A A P L S A G V R	H W A R D L A A A G
61/21	91/31
ctc cgg agc cgc tgc ctc ccg aca cgg ctc	acg atg cgc ggc gac agg gcc ggc ggg ggc
L R S R S L P T R L	T M R G D R A G G G
121/41	151/51
ccc gtg ctc cag ttc act aac tgc cgg atc	ctg cgc gga ggg aaa ctg ctc agg gag gat
P V L Q F T N C R I	L R G G K L L R E D
181/61	211/71
ctg tgg gtg cgc gga ggc cgc atc ttg gac	cca gag aag ctg ttc ttt gag gag cgg cgc
L W V R G G R I L D	P E K L F F E E R R
241/81	271/91
gtg gcc gac gag cgg cgg gac tgc ggg ggc	cgc atc ttg gct ccc gga ttc atc gac gtg
V A D E R R D C G G	R I L A P G F I D V
301/101	331/111
cag atc aac cgt gga TTT GGT GTT GAC TTC	TCT CAA GCC ACG GAG GAC GTG GGT TCG GGG
Q I N R G F G V D F	S Q A T E D V G S G
361/121	391/131
GTT GCC CTC GTG GCC CGG AGG ATC CTG TCG	CAC GGC GTC ACC TCC TTC TGC CCC ACC CTG
V A L V A R R I L S	H G V T S F C P T L
421/141	451/151
GTC ACT TCC CCA CCG GAG GCT TAT CAC AAG	GTT GTT CCT CAG ATC CCT GTG AAG AGT GGT
V T S P P E A Y H K	V V P Q I P V K S G
481/161	511/171
GGT CCC CAT GGG GCA GGG GTC CTC GGG CTG	CAC CTG GAG GGC CCC TTC ATC AGC CGG GAG
G P H G A G V L G L	H L E G P F I S R E
541/181	571/191
AAG CGG GGC GCG CAC CCC GAG GCC CAC CTC	CGC TCC TTC GAG GCC GAT GCC TTC CAG GAC
K R G A H P E A H L	R S F E A D A F Q D
601/201	631/211
TTG CTG GCC ACC TAC GGG CCC CTG GAC AAT	GTC CGC ATC GTG ACG CTG GCC CCA GAG TTG
L L A T Y G P L D N	V R I V T L A P E L
661/221	691/231
GGC CGT AGC CAC GAA GTG ATC CGG GCG CTG	ACG GCC CGT GGC ATC TGC GTG TCC CTA GGG
G R S H E V I R A L	T A R G I C V S L G
721/241	751/251
CAC TCA GTG GCT GAC CTG CGG GCG GCA GAG	GAT GCT GTG TGG AGC GGA GCC ACC TTC ATC
H S V A D L R A A E	D A V W S G A T F I
781/261	811/271
ACC CAC CTC TTC AAC GCC AAG CTG CCT TTC	CAC CAC CGC GAC CCA GGC ATC GTG GGG CTC
T H L F N A M L P F	H H R D P G I V G L

Fig. 3. (a)

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841/281  
CTG ACC AGC GAC CCG CTG CCC GCA GGC CGC TGC ATC TTC TAT GGG ATG ATT GCA GAT GGC  
L T S D R L P A G R C I F Y G M I A D G  
901/301  
ACG CAC ACC AAC CCC GGC GGC CTG CCG ATC GCC CAC CGT GCC CAT CCC CAG GGG CTG GTG  
T H T N P A A L R I A H R A H P Q G L V  
961/321  
CTG GTC ACC GAT GCC ATC CCT GCG TTG GGC CTG GGC AAC GGC CCG CAC ACC CTG GGA CAG  
L V T D A I P A L G L G N G R H T L G Q  
1021/341  
CAG GAA GTG GAA GTG GAC GGT CTG ACG GCC TAC GTG GCA GGT GAG CCG CCT GAC CCA CTG  
Q E V E V D G L T A Y V A G E R P D P L  
1081/361  
GGT CCC AGG TCC CAG CCC GCA TGC CAG GTG GCC CAC GAC CCC CCC AGA GCC TGC CCT CTC  
G P R S Q P A C Q V A H D P P R A C P L  
1141/381  
TGC TCT CAA GGC ACC AAG ACG CTG AGT GGC AGC ATA GCC CCA ATG AAC GTC TGT GTC CCG  
C S Q G T K T L S G S I A P M N V C V R  
1201/401  
CAC TTC CTG CAG GGC ACA GGC TGC AGC ATG GAG TCG GCC CTG GAG GGT GCA TCC CTG CAC  
H F L Q A T G C S M E S A L E A A S L H  
1261/421  
CCC GGC CAG TTG CTG GGG CTG GAG AAG AGT AAG GGG ACC CTG GAC TTT GGT GGT GAC GCA  
P A Q L L G L E K S K G T L D F G A D A  
1321/441  
GAC TTC GTG GTG CTC GAC GAC TCC CTT CAC GTC CAG GCC ACC TAC ATC TCG GGT GAG CTG  
D F V V L D D S L H V Q A T Y I S G E L  
1381/461  
GTG TGG CAG GCG GAC GCA GGT AGG CAG TGA CAA GGA CCT CCG CTG AGA GGA CAC CTG GCC  
V W Q A D A A R Q  
1441  
GCA GCG GGA TGC CAT CAG GGC CCG GTG GTT GGG GAG CTG GTC TCC AGG GAG TGA GTC GGG  
1501  
AGC CCT GCT GGA T

Fig. 3 (b)

REPLACEMENT SHEET

cloned	1	- - - - -
deduced	1	MFARSAGLCFPWYPGYSHGGDAEEYLAQHPTPT
cloned	1	- - - - -
deduced	34	GRGAERRPRPPDSSAEGDPGMLKPCGCVPSPOK
cloned	1	- - - - -
deduced	67	YALKYGAPFCTCGCFORFHLPKACPGQQGSPES
cloned	1	- - - - -
deduced	100	ARPRNROPYATONGPAPRPOYLPGSSSRCCHGY
cloned	1	- - - - -
deduced	133	ICFLFDSSOTAEEYEGWGGDTGSOLRPLLRGAY
cloned	1	- - - - -
deduced	166	YNSRMWDSOKEDSKPDILRLQNTQLFHSYSLST
cloned	1	- - - - -
deduced	199	DGTOVSPGAHYCSPTGAGCPRPCADTPGPOPOP
cloned	1	- - - - -
deduced	232	MDLRYGQRPPYEPPEPTLLALQRPQRLHHHLF
cloned	1	- - - - -
deduced	265	LAGLQQQRSYEPMARYKMELPACGATLSLYPSLP
cloned	1	- - - - -
deduced	298	AFSIPRHQSQSSTPCPFLGCRPCPQLSMDTPMP

Fig. 7 (a)

REPLACEMENT SHEET

cloned	1	- - - - -
deduced	331	E L O Y G P Q E Q E L R Q L L H K D K S K R S K E Y A T P A Q P S
cloned	1	- - - - -
deduced	364	P T S O Y P A A A C Y A C A Y A S S V Y K Q K L A E Y I L K K Q Q
cloned	1	- - - - -
deduced	397	A A L E R T Y H P N S P G I P Y R S Q G P C S G Q C P C S Y P T P
cloned	1	- - - - -
deduced	430	L K Q P W H S F C R T L E P L E T E G A T R S M L S S F L P P Y P
cloned	1	- - - - -
deduced	463	S L P S D P P E H F P L R K T Y S E P N L K L R Y K P K K S L E R
cloned	1	- - - - -
deduced	496	R K N P L L R K E S A P P S L R R R P A E T L G D S S P S S S T
cloned	1	- - - - -
deduced	529	P A S G C S S P N D S E H G P N P I L G S E A L L G O R L R L Q E
cloned	1	- - - - -
deduced	562	T S Y A P F A L P T Y S L L P A I T L G L P A P A R A D S D R R T
cloned	1	- - - - -
deduced	595	H P T L G P R G P I L G S P H T P L F L P H G L E P E A G G T L P
cloned	1	- - - - -
deduced	628	S R L Q P I L L L D P S G S H A P L L T Y P G L G P L P F H F A Q

Fig. 7 (b)

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cloned	1	.....
deduced	661	S L M T T E R L S G S G L H W P L S R T R S E P L P P S A T A P P
cloned	1	.....E Q L K T H V O V I K R S A K P S E K P R L R Q
deduced	694	P P G P M Q P R L E Q L K T H V O V I K R S A K P S E K P R L R Q
cloned	25	I P S A E D L E T D G G G P G Q V Y D D G L E H R E L G H G O P E
deduced	727	I P S A E D L E T D G G G P G O V Y D D G L E H R E L G H G O P E
cloned	58	A R G P A P L Q O H P O Y L L W E Q Q R L A G R L P R G S T G D T
deduced	760	A R G P A P L Q O H P O Y L L W E Q Q R L A G R L P R G S T G D T
cloned	91	Y L L P L A Q G G H R P L S R A O S S P A A P A S L S A P E P A S
deduced	793	Y L L P L A Q G G H R P L S R A O S S P A A P A S L S A P E P A S
cloned	124	Q A R Y L S S S E T P A R T L P F T T G L I Y D S Y M L K H Q C S
deduced	826	Q A R Y L S S S E T P A R T L P F T T G L I Y D S Y M L K H Q C S
cloned	157	C G D N S R H P E H A G R I Q S I W S R L O E R G L R S O C E C L
deduced	859	C G D N S R H P E H A G R I Q S I W S R L O E R G L R S O C E C L
cloned	190	R G R K A S L E E L Q S Y H S E R H V L L Y G T N P L S R L K L D
deduced	892	R G R K A S L E E L Q S Y H S E R H V L L Y G T N P L S R L K L D

Fig. 7 (c)

REPLACEMENT SHEET

cloned	223	NGKLAGLLAQRMFYMLPCGGYG	-----
deduced	925	NGKLAGLLAQRMFYMLPCGGYG	PLATLSAFLAS
cloned	245	-----	-----
deduced	958	LAPTYPQGLSRYSWGLKPPPGPNPKSRPAPCPW	
cloned	245	-----	YDT
deduced	991	GPGRGYGTTPLGPGSCYKPWMMRALTLAPO	YDT
cloned	248	DTIWNELHSSNAARWAAGSYTDLAFKYASRELK	
deduced	1024	DTIWNELHSSNAARWAAGSYTDLAFKYASRELK	
cloned	281	NGFAYYRPPGHHADHSTAMGFCFFNSYAIACRQ	
deduced	1057	NGFAYYRPPGHHADHSTAMGFCFFNSYAIACRQ	
cloned	314	LQQQSKASKILIDWDYHHGNGTQQT FYQDPSV	
deduced	1090	LQQQSKASKILIDWDYHHGNGTQQT FYQDPSV	
cloned	347	LYISLHRHDDGNFFPGSGAYDEY GAGSGEGFNY	
deduced	1123	LYISLHRHDDGNFFPGSGAYDEY GAGSGEGFNY	
cloned	380	NYAWAGGLDPPMGDPEYLAAFRIYMPIAREFS	
deduced	1156	NYAWAGGLDPPMGDPEYLAAFRIYMPIAREFS	

Fig. 7 (d)

REPLACEMENT SHEET

cloned	413	PDLVLYSAGFDAAEGHPAPLGGYHYS AKCFGYM
deduced	1189	PDLVLYSAGFDAAEGHPAPLGGYHYS AKCFGYM
cloned	446	TQOLMNL AGGAYYLALEGGHDLTAICDASEACY
deduced	1222	TQOLMNL AGGAYYLALEGGHDLTAICDASEACY
cloned	479	AALLGNRYDPLSEEGWKOKPNLNSIRSLEAVIR
deduced	1255	AALLGNRYDPLSEEGWKOKPNLNAIRSLEAVIR
cloned	512	YHS . . . . .
deduced	1288	YHS KCGDGT LAELRLKDLGGTLPHRGOILGFRG
cloned	515	. . . . .
deduced	1321	QPGDLLLYWSKIPYSDPGSNGEHPPYRGYPLSP
cloned	515	. . . . . KYWGCMQRLASCPDSWYP
deduced	1354	PDGASRAYQTYAPOG KYWGCMQRLASCPDSWYP
cloned	533	RYPGADKEEYEAYTALASLSYGILAEDRPSEOL
deduced	1387	RYPGADKEEYEAYTALASLSYGILAEDRPSEOL
cloned	566	VEEEEEPMNL
deduced	1420	VEEEEEPMNL

Fig. 7 (e)

REPLACEMENT SHEET

227 PQPQPMDLRVGQR...PPVEP.....PPEPTLLALQRPQRLHHHLFLAGL 268  
 44 PSAPVPMDLRLDHQFSLPVAEPALREQQLQOELLALKQKQOIQRQILIAEF 93  
 269 QQQRSV.....EPMRVKMEIPACGATLSLVPSLPAPFSIPRHQSQS 308  
 94 QRQHEQLSRQHEAQLHEHIKQQQEMLAMKHQOELLEH..QRKLERHRREQ 141  
 309 STPCPFLGCRPCPQLSMDTPMPELQVGPQEQELRQLLHKDKSKRSKEVAT 358  
 142 .....ELEKQHREQKLQQLKNKEKGKES..... 164  
 359 PAQPSPTSQVPAAACVACAVASSVVKQKLAEVILKKQQAALERTVHPNSP 408  
 165 .....AVASTEVMKMLQEFVLNKKKALAHRL..... 191  
 409 GIPYRSQGPCSGQCPCSVPTPLKQPWHSFCRTLEPLETEGATR.SMLSSF 457  
 192 .....NHCISSDPYWGKTQHSSSLDQS 214  
 458 LPPVPSLPS.....DPPEHFPLRKTVSEPNLKLRYKPK.KSLERR 496  
 215 SPPQSGVSTSYNHPVLGMYDAKDDFPLRKTASEPNLKLRSRLKQKVAERR 264  
 497 KNPLLRKESAP..PSLRRRPAETLGDSSPSSSSTPASGCSSPND..... 539  
 265 SSPLLRKRDGPVVTALKKRPLDV...TDSACSSAPGSGPSSPNNSSGSVS 311  
 540 .EHGPNPILGS...EALLCQRLRLQETSVAPFALPTVSLLPBAILGLPA. 584  
 312 AENGIAPAVPSIPAETSLAHLVAREGSAAPLPLYTSPSLPNITLGLPAT 361  
 585 .....PARADSDRTHPTLGPGRGPILGSPH.TPLFLPHGLEPEAGGTL 627  
 362 GPSAGTAGQODTERLTLPALQQRSLFPGTHLTPYLSTSPLERDGGAAHS 411  
 628 SRLQPIILLDPSGSHAPLLTVPGLGPLPFHFAQSLMTTERLSGS....GL 673  
 412 PLLQHMLVLEQPPAQAPLVT..GLGALPLH.AQSLVGADRVSPSIHKLRLQ 458  
 674 HWPLSRTRSEPLPPSATAPPPPGPMQPRLEQLKTH.....VQVIKRS 715  
 459 HRPLGRTQSAFLPQNAQALQHLVIQQQHQQFLEKHKQQFQQQQLQMNKII 508  
 716 AKPSE.....KPRLRQIPSAEDLETGCGGP 741  
 509 PKPSEPARQPESHPEETEEELREHQALLDEPYLDRLPGQKEAHAQAG..V 556  
 742 QVVDDGLEHRELGHGQPEARGP...APLQQHP.....QVLLWEQQR 779  
 557 QVKQEPIDESDE.....EEAEPPEVEPGQRQPSEQELLFRQQALLLEQQR 601  
 780 LAGRLPRGSTGDTVLLPLAQGGHRPLSRAQSSPA.APASLSAPEPASQAR 828  
 602 IHQLRNYQASMEAAGIPVSFGGHRPLSRAQSSPASATFPVSVQEPPTKPR 651  
 829 VLSSSETPARTLPFTTGLIYDSVMLKHQCSCGDNRRHPEHAGRIQSIWSR 878  
 652 .....FTTGLVYDTLMLKHQCTCGSSSSHPEHAGRIQSIWSR 688

Fig. 8 (a)



## REPLACEMENT SHEET

Fig. 8 (b)